

CONSTRUCTION CHARACTERISTICS

Number of Pairs	4
Total Number of Conductors	8
AWG	23 (0.55 mm)
Conductor Material	Solid Copper
Insulation Material	HDPE
Insulation Diameter	1.0 mm
Spline Material	PE
Outer Jacket Material	FR-PVC
Outer Jacket Ripcord	Yes
Shipping Weight	29.6 lb / 1,000 ft Pull Box
Max. Recommended Pulling Tension	38 lb
Min. Bend Radius (Install)	1.0 in (2.5 cm)
Operating Temperature Range	-20°C to + 75°C
Footage Markers	0 to 1,000 ft
Flame Rating	ETL Listed CMR

ELECTRICAL CHARACTERISTICS

Impedance@ 1 to 250 MHz	100 ± 15 Ohms
Nominal Mutual Capacitance @ 1 KHz	15 pf/ft
Nominal Velocity of Propagation	70%
Maximum Delay Skew	≤ 45 ns/100 m
Maximum DCR Unbalance @ 20° C	≤ 5%
Maximum Conductor DCR @ 20° C	9.5 Ohms/100 m
Maximum Operating Voltage UL	300 V RMS
Transmission Standard	Meets or exceeds TIA/EIA-568-C.2
Swept to 500 MHz	

COLORS AVAILABLE

WHT	BLU	GRN	YEL	VIO	GRY	PNK
						

ITEM

COLOR

PVCAT6R-XXX-PB	Use Chart
XXX is replaced by Color code	



Frequency (MHz)	Return Loss (Min. dB)	Attenuation (Max. dB/100m)	NEXT (Min. dB)	PSNEXT (Min. dB)	ELFEXT (Min. dB/100m)	PSELFEXT (Min. dB/100m)
1	20.0	2.0	74.3	72.3	67.8	64.8
4	23.0	3.8	65.3	63.3	55.8	52.8
8	24.5	5.3	60.8	58.8	49.7	46.7
10	25.0	6.0	59.3	57.3	47.8	44.8
16	25.0	7.6	56.2	54.2	43.7	40.7
20	25.0	8.5	54.8	52.8	41.8	38.8
25	24.3	9.5	53.3	51.3	39.8	36.8
31.25	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100	20.1	19.8	44.3	42.3	27.8	24.8
200	18.0	29.0	39.8	37.8	21.8	18.8
250	17.3	32.8	38.3	36.3	19.8	16.8
**300	16.8	36.4	37.1	35.1	18.3	15.3
**400	15.9	43.0	35.3	33.3	15.8	12.8
**500	15.2	48.9	33.8	31.8	13.8	10.8

** Values above 250 MHz are informational only.

PVCAT6R-XXX-PB	U.S. Toll Free 1.800.205.8620	International +1.501.955.0032	www.perfect-vision.com	QB# 1018
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